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Bacillus alcalophilus

COLLECTION: NCIMB - National Collection of Industrial and Marine Bacteria

STRAIN NUMBER: 10438

STRAIN_TYPE: Bacterium

STRAIN_NAME: Vedder2

EQUIVALENT_STRAINS: ATCC43592 NTCT4554
DSM2526

DEPOSITOR: T. Gibson

ISOLATED_FROM: Human faeces

REFERENCE: Vedder A. (1934) Ned. Tijdschr. Hyg. 1
pp141-147. Microbiology (1995) 141, 1745-1761

MEDIUM: alkalophile medium; 30C aerobic

GRAM_STAIN: gram negative

APPLICATIONS: Used as alkalophile

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Fungi, Yeasts, and Yeast Genetic Stock

ATCC Number: 48272

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Price: \$145.00

Organism: *Acremonium chrysogenum* (Thirumalachar et Sukapure) Gams, anamorph

Designations: C-10

Depositors: J. Lein

Biosafety Level: 1

Shipped: freeze-dried

Growth Conditions: **ATCC** medium: 336 Potato dextrose agar (PDA)
Temperature: 24C

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Applications: produces: cephalosporin C [RF11687]
produces: isopenicillin N synthetase [RF10233] [RF22186]
produces: deacetoxycephalosporin C synthetase [RF8625]
produces: 5-(2-aminoadipyl)cysteinylvaline synthetase [ACV synthetase] [RF11322] [RF11701]
produces: 18,000 mcg/ml cephalosporins in a complex medium [RF10685]

Descriptions: Atypical

Subcollection: Fungi

References: RF8625: Shen YQ et al. Desacetoxycephalosporin C synthetase: importance of order of cofactor/reactant addition. *Enzyme Microb. Technol.* 6: 402-404, 1984
RF10233: Hollander IJ et al. A pure enzyme catalyzing penicillin biosynthesis. *Science* 224: 610-612, 1984 PubMed: 84172232
RF10685: Shen YQ et al. Levels of isopenicillin N synthase and deacetoxycephalosporin C synthase in *Cephalosporium acremonium* producing high and low levels of cephalosporin C. *Bio-Technology* 4: 61-64, 1986
RF11322: Zhang J et al. Carbon source regulation of ACV synthetase in *Cephalosporium acremonium* C-10. *Curr. Microbiol.* 18: 361-367, 1989
RF11687: Malmberg LH and Hu WS. Identification of rate-limiting steps in cephalosporin C biosynthesis in *Cephalosporium acremonium*: a theoretical analysis. *Appl. Microbiol. Biotechnol.* 38: 122-128, 1992 PubMed: 93098928
RF11701: Zhang J and Demain AL. Regulation of ACV synthetase activity in the beta-lactam biosynthetic pathway of carbon sources and their metabolites. *Arch. Microbiol.* 158: 364-369, 1992
RF22186: Luengo JM et al. Direct enzymatic synthesis of penicillin G using cyclases of *Penicillium chrysogenum* and *Acremonium chrysogenum*. *Bio-Technology* 4: 44-47, 1986

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Fungi, Yeasts, and Yeast Genetic Stock

ATCC Number: 20338

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Price: \$170.00

Organism: *Acremonium kiliense* Grutz, anamorph deposited as *Cephalosporium acremonium* Corda, anamorph

Designations: mold 109 [CBS 895.71B]

Depositors: L. Grizzi

Biosafety Level: 1

Shipped: freeze-dried

Growth Conditions: ATCC medium: 336 Potato dextrose agar (PDA)
Temperature: 24C

This material is cited in a U.S. and/or other Patent Application and may not be used to infringe the patent claims.

Related Products

Applications: produces: alkaline protease [RF10111] [RF10112]

Subcollection: Fungi

References: RF10111: Van Heyningen SV and Secher DS. A new alkaline protease from *Acremonium kiliense*. *Biochem. J.* 125: 1159-1160, 1971 PubMed: 72144902
RF10112: van Heyningen S. An alkaline protease from *Acremonium kiliense*. Specificity, kinetics and effects of pH. *Eur. J. Biochem.* 28: 432-437, 1972 PubMed: 73025158

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DSM 485 - *Bacillus alcalophilus* (Bacteria)**DSMZ**

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Name *Bacillus alcalophilus* Vedder 1934^{AL} (Bacteria)**DSM No.** 485= ATCC 27647, JCM 5262, NCIB 10436, NCIB 8772, NCTC 4553**Information** <- ATCC <- NCTC <- A. Vedder, strain 1. Human faeces (122, 6841). **Type strain.** Taxonomy/description (1300, 2620, 3395, 3768). Non-alkaliphilic mutants (2431). Produces alkaline protease (Brit. Pat. 1,205,403). Alkaliphilic. (Medium 31, 37°C)**Medium** 31**Reference(s)** 122 , 170 , 1300 , 2431 , 2620 , 3395 , 3768 , 6841**Supplied as** (vacuum) dried culture (actively growing cultures available on request at an extra charge)**Price** EURO 20 (non-profit making institutions), EURO 51 (other institutions): **Teaching strain**, reduced priceDSMZMicroorganisms

DSM 2526 - *Bacillus alcalophilus* (Bacteria)**DSMZ**

© by DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Braunschweig, Germany

Name *Bacillus alcalophilus* Vedder 1934^{AL} (Bacteria)**DSM No.** 2526= NCIB 10438**Information** <- NCIB <- T. Gibson <- ? <- A. Vedder, strain 2. Human faeces (122).
Taxonomy/description (2620, 3395). Alkaliphilic. (Medium 31, 30°C).**Medium** 31**Reference(s)** 122 , 2620 , 3395**Supplied as** (vacuum) dried culture (actively growing cultures available on request at an extra charge)**Price** EURO 36 (non-profit making institutions), EURO 51 (other institutions): Normal price.DSMZMicroorganisms

Fusarium oxysporum Schlechtendahl emend. Snyder & Hansen fsp. *niveum* (E. F. Smith)
Snyder & Hansen

4471 **Accession:** 1950. KYA (H. Yoshii).

Cultivation: medium 1, 24°C.